



GLOBAL REAL-WORLD QOE BENCHMARKING

Real-user QoE benchmarking at global scale

A global real-world QoE dataset and benchmark-intelligence layer — the data foundation behind market studies, regulator country reports and the public Connectivity Observatory.

Global scale

Real-user, not synthetic

Privacy-first · GDPR

Methodology-backed

Fixed + mobile

50M+

MEASUREMENT
ENDPOINTS

20B+

MEASUREMENTS / DAY

100+

COUNTRIES COVERED

Fixed + Mobile

BOTH NETWORKS

Sample-level

RAW DATA ACCESS

MedUX Crowdsourcing Analytics · Worldwide mobile benchmarking · Most Frequent RAT per cell

LIVE

187 countries

WORLDWIDE · ACTIVE TESTS

Mobile Benchmarking · Most Frequent RAT per cell

2.41M

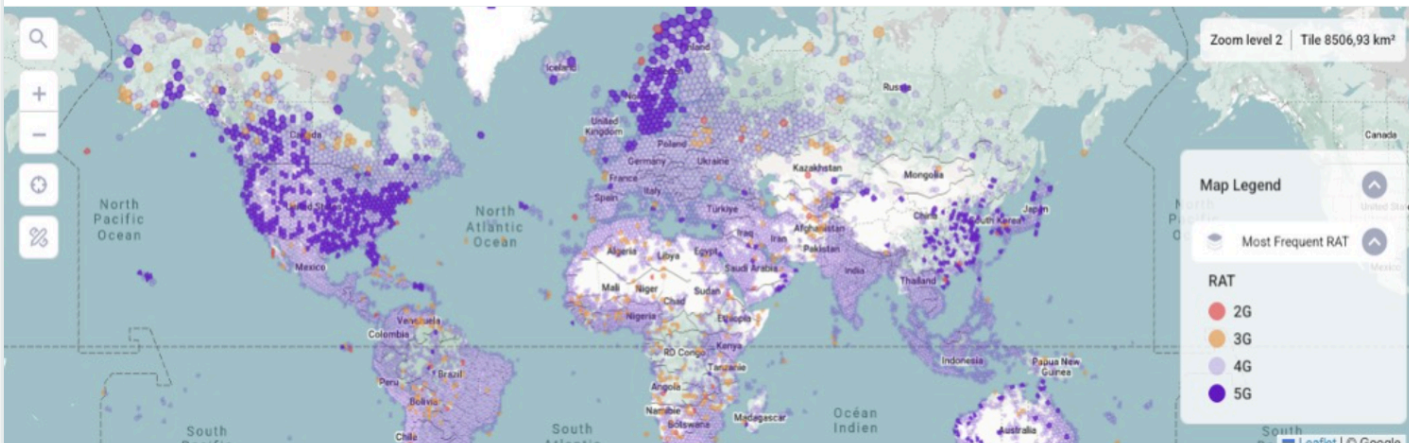
CELLS OBSERVED

312

OPERATORS

187

COUNTRIES



187
COUNTRIES



14.8M
ACTIVE TESTS

312
OPERATORS

75.7%
4G COVERAGE

42ms
AVG LATENCY

01 WHY MEDUX CROWDSOURCING



Global benchmarking layer

A standardised, methodology-backed perspective on QoE that levels the playing field with comparable real-user evidence.



Real-user QoE, not synthetic

Field measurements from real devices and apps give unbiased market visibility across fixed and mobile networks.



Privacy-first by design

No PII, geo-aggregated by default and GDPR-compliant — calibrated against MedUX controlled probes.



50M+ endpoints, 100+ countries

Generating 20B+ real-user measurements every day, worldwide.



Powers the Observatory

The evidence behind MedUX public country reports and the Connectivity Observatory.



Cited by the EC

Referenced in the European Commission Digital Networks Act Impact Assessment.

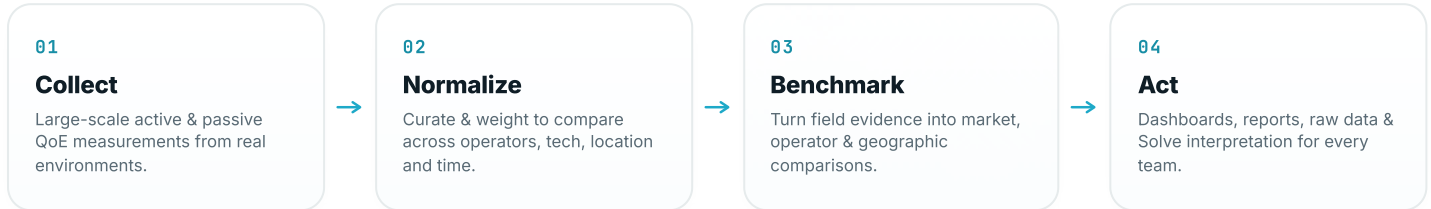


FROM LARGE-SCALE DATA TO DECISIONS

One methodology, operator-comparable intelligence

Field measurements are normalised and calibrated against MedUX controlled probes, then delivered as comparable, audit-ready QoE — through dashboards, strategic reports and raw-data access.

02 BENCHMARKING PIPELINE



03 METHODOLOGY PRINCIPLES

Privacy first

No PII, on-device aggregation, anonymised outputs, GDPR-aligned by design.

Methodology-backed

Calibrated against MedUX controlled probes, with reproducible, audit-ready KPIs.

Active + passive

Controlled active tests plus passive telemetry for a fuller view of real experience.

Fixed + mobile

One dataset spans fixed broadband, mobile 4G/5G and Wi-Fi, comparable across access tech.

04 DELIVERY CHANNELS

Advanced analytics dashboards
LIVE · INTERACTIVE

- Explore QoE across operators, technologies, geographies and time
- The analysis workspace for benchmark intelligence

Strategic benchmark reports
EXECUTIVE

- Methodology-backed market, operator and country reporting
- Ready for regulator submissions and board decisions

Raw data & API access
GET /V1/QOE

- Sample-level raw data through the analytics portal
- Programmatic access via API or FTP exports

Dynamic tables & reports
COMPATIBLE

- Dynamic tables and export-compatible report formats
- Feed existing BI and reporting workflows

Powered by MedUX Solve AI

"Premium video QoE fell in 3 districts on Operator A — prioritise those." Solve interprets patterns in natural language and ranks findings by impact.

AI ASSISTANT · ONLINE

One methodology, every output your teams need.

Dashboards, strategic reports, raw data and AI interpretation from a single dataset.

Explore the platform →



● WHERE THE DATA CREATES VALUE

Large-scale QoE evidence, applied across the operator

From the field-data scenarios teams use every day to the strategic decisions that shape market position — benchmarking, wholesale visibility, network strategy and performance-backed commercial moves.

06 CORE FIELD-DATA USE CASES



Massive Coverage Analysis

Detect coverage holes, track new cell deployments, analyze spectrum and bandwidth usage and compare performance before and after infrastructure changes.

- Coverage holes
- Cell tracking
- Before / after



Quality of Experience

Measure real-user experience across video streaming, social media, web browsing and gaming to see how network performance becomes perceived quality.

- Streaming
- Social & web
- Gaming



Used Technology Analysis

Analyze access-technology usage, device and OS behavior, network capacity and the relationship between technology, coverage and service quality.

- Access tech
- Device & OS
- Capacity



Radio Network Planning

Identify candidate areas for deployment, support PCI planning, analyze 5G / 5G SA rollout and detect overshooting patterns with real-field data.

- PCI planning
- 5G / 5G SA
- Optimization

07 STRATEGIC USE CASES



Market Benchmarking

Compare own and competitor QoE across fixed, mobile, OTT and apps to guide investment and support technical and business benchmarking.

- Competitors
- Multidimensional KPIs



Wholesale Performance

Analyze deviations in agreed SLAs with real-user QoE, monitor service continuity and identify MVNO opportunities and high-density regions.

- SLA deviations
- MVNO opportunities



Marketing Claims & Awards

Support performance-leadership claims with independent benchmark evidence, feeding best-in-class positioning, certifications and MedUX Awards.

- Best-in-class
- Certifications



Network Strategy Insights

Understand own and competitor strategies through real-field evidence — bands, frequencies, RAT usage and 4G / 5G / 5G SA coexistence.

- Spectrum & RAT
- Rollout evolution

Turn real-world field data into **benchmark intelligence**.

Benchmark markets, monitor network quality and back strategic decisions with real-user QoE.

[Request a demo](#) →